

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/538,636
Source: PCT
Date Processed by STIC: 06-21-2005

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 06/21/2005

PATENT APPLICATION: US/10/538,636

TIME: 13:51:01

Input Set : A:\pto.da.TXT

Output Set: N:\CRF4\06172005\J538636.raw

```

3 <110> APPLICANT: Nichirei Corporation
5 <120> TITLE OF INVENTION: Primers and probes for detection of vibrio cholera or vibrio
mimicus and
6     method of using thereof
9 <130> FILE REFERENCE: PH-1967-PCT
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/538,636
C--> 12 <141> CURRENT FILING DATE: 2005-06-10
14 <150> PRIOR APPLICATION NUMBER: JP 2002/362878
15 <151> PRIOR FILING DATE: 2002-12-13
17 <160> NUMBER OF SEQ ID NOS: 6
19 <170> SOFTWARE: PatentIn Ver. 2.1
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 885
23 <212> TYPE: DNA
24 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence of
vibrio cholera
27     and vibrio mimicus -gyrB
29 <400> SEQUENCE: 1
30 gtmtccggyg gtctrcacgg ggtaggtgtg tccgtrgtka aygcsctbtc wgaaaaagtg 60
31 ctrctbacca tytctcgygg yggcaaraty caywcscaa cttaccatca ygggtgtgcc 120
32 caagcaccgt tgkctgtrgt rgggtgakacw gagcgtagcg gtactaccgt acgtttcttg 180
33 ccwagygcac aracytttac caatatcgaa ttycattacg acattytggc taaacgyctg 240
34 cgtgagctgt cattcctgaa ytctggcgtg tcatcaagc tgaysgatga rcgtgaagaa 300
35 gataaraaag accacttyat gtatgaaggk ggtattcaag cgtttgtkac ccacttgaac 360
36 cgyaayaaaa cgccratcca tgaraaagtm ttccacttya accaagagcg tgaagatggc 420
37 atcagcgtgg aagtggcrat gcagtggaa ygatggtttcc aagaaaacat ctactgcttt 480
38 acyaacaaca tyccacagcg tgatggyggt acccayttag cyggtttccg tgggtgcrttg 540
39 acccgacttt tgaacaacta yatggayaaa gaaggcttct cgaagaaagc scaagcrgca 600
40 acctcgggtg atgatgcgcg tgaaggctta acrgcdgtkg tdtcggtgaa agtrccrgat 660
41 cctaaattct cragccaaac caaagataag ctrgtttctt cggargtraa atccgcrgtt 720
42 gartcagcya tgaatgagaa gctggcrgat ttcctrgcgg aaaacccaag cgaagcgaaa 780
43 aacgtttgtt cgaagattat tgatgcrgcr cghgckcgtg aagcvgcgcg taaagcmcgk 840
44 gaaatgacyc gycgtaaagg cgcgytrgay ythgcwgggt trcch 885
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 822
48 <212> TYPE: DNA
49 <213> ORGANISM: Artificial Sequence
51 <220> FEATURE:
52 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence of
vibrio cholera
53     and vibrio mimicus -rpoD
55 <400> SEQUENCE: 2

```

57 acacgtgaag gygaaatcga tattgccaag cgcattgaag atggatttaa ccaagttcaa 60
58 agtgcgattg ctgagtatcc tggaaccatc ccwtayattc ttgaracagtt tgaymrkgtt 120

RAW SEQUENCE LISTING

DATE: 06/21/2005

PATENT APPLICATION: US/10/538,636

TIME: 13:51:01

Input Set : A:\pto.da.TXT

Output Set: N:\CRF4\06172005\J538636.raw

```

59 caggcmgaag arctacgtct sactgayctg atttcwgggt tcgttgaycc taacgacatg 180
60 gaaaccgaag cgccaacygc kactcacatc gggttcwgarc tytctgaagc sgatctcgck 240
61 gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt 300
62 gaaagyagcg acagcgaaga agaagtsagg atygaccctg arctsgctcg tgagaaattc 360
63 aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggctcgtgac 420
64 agtmaycaag cwtctgaagc ktcarrcytr gtrytgata tyttccgyga attccgycta 480
65 acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy 540
66 acccaagarc gyttggtrat gaaagcvgrt gttgaagtcg cgaaratgcc raagaaatcr 600
67 ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygct 660
68 tctgayaarc cttaygtasm raaagtmcgt gagcaagaag amgakatygc ccgytcaaty 720
69 caraaactdc aratgatcga rcargagacw tcaactgtctg ttgarcgyat caaagacatc 780
70 agccgctcgtg tgctwatcgg tgargcraaa gctcgccgtg cg 822

```

72 <210> SEQ ID NO: 3

73 <211> LENGTH: 822

74 <212> TYPE: DNA

75 <213> ORGANISM: Artificial Sequence

77 <220> FEATURE:

78 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence vibrio cholera-gyrB

80 <400> SEQUENCE: 3

```

82 acacgtgaag gygaaatcga tattgccaag cgcattgaag atggtattaa ccaagttcaa 60
83 agtgcgattg ctgagtatcc tggaaccatc ccwtayattc ttgarcagtt tgaymrkgtt 120
84 caggcmgaag arctacgtct sactgayctg atttcwgggt tcgttgaycc taacgacatg 180
85 gaaaccgaag cgccaacygc kactcacatc gggttcwgarc tytctgaagc sgatctcgck 240
86 gatgaagatg aygmkgtcgy sgargatgaa gacgargatg aagaygaaga yggcgacggt 300
87 gaaagyagcg acagcgaaga agaagtsagg atygaccctg arctsgctcg tgagaaattc 360
88 aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggctcgtgac 420
89 agtmaycaag cwtctgaagc ktcarrcytr gtrytgata tyttccgyga attccgycta 480
90 acaccaaarc aattygacca yttggttgaa actctgcgya cytcratgga tcgtgttcgy 540
91 acccaagarc gyttggtrat gaaagcvgrt gttgaagtcg cgaaratgcc raagaaatcr 600
92 ttyatygcyc trtttacagg caatgaatcg aatgargart ggctbgataa agtvctygct 660
93 tctgayaarc cttaygtasm raaagtmcgt gagcaagaag amgakatygc ccgytcaaty 720
94 caraaactdc aratgatcga rcargagacw tcaactgtctg ttgarcgyat caaagacatc 780
95 agccgctcgtg tgctwatcgg tgargcraaa gctcgccgtg cg 822

```

97 <210> SEQ ID NO: 4

98 <211> LENGTH: 822

99 <212> TYPE: DNA

100 <213> ORGANISM: Artificial Sequence

102 <220> FEATURE:

103 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence of vibrio cholera -

104 rpoD

106 <400> SEQUENCE: 4

```

107 acacgtgaag gtgaaatcga tattgccaag cgcattgaag atggtattaa ccaagttcaa 60
108 agtgcgattg ctgagtatcc tggaaccatc ctttatattc ttgagcagtt tgatcgtggt 120
109 caggccgaag agctacgtct cactgacctg atttcagggt tcgttgaycc taacgacatg 180
110 gaaaccgaag cgccaaccgc gactcacatc gggttcgagc tttctgaagc ggatctcgcg 240
111 gatgaagatg atgctgtcgt cgaagatgaa gacgaagatg aagacgaaga tggcgacggt 300
112 gaaagcagcg acagcgaaga agaagtcggg atcgaccctg aactggctcg tgagaaattc 360
113 aatgaactgc gcggyaagtt ccaaaacctg caattagcgg ttaatgaatt tggctcgtgac 420
114 agtcatcaag cttctgaagc gtcagactta gtgytgata tcttccgtga attccgycta 480

```

RAW SEQUENCE LISTING

DATE: 06/21/2005

PATENT APPLICATION: US/10/538,636

TIME: 13:51:01

Input Set : A:\pto.da.TXT

Output Set: N:\CRF4\06172005\J538636.raw

```

115 acaccaaagc aattcgacca cttggttgaa actctgcgca cttcaatgga tcgtgttcgc 540
116 acccaagaac gtttggrat gaaagcggta gttgaagtcg cgaagatgcc gaagaaatcg 600
117 ttcacgcccc tatttacagg caatgaatcg aatgaagagt ggctggataa agtccttgct 660
118 tctgacaagc cttacgtagc gaaagtcctg gagcaagaag aagagatccg ccgttcaatt 720
119 cagaaactac aaatgatcga gcaagagaca tcaactgtctg ttgaacgcat caaagacatc 780
120 agcgcgtcgt tgtcaatcgg tgaggcraaa gctcgccgtg cg 822
122 <210> SEQ ID NO: 5
123 <211> LENGTH: 885
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence of
vibrio mimicus -
129     gyrB
131 <400> SEQUENCE: 5
132 gtctccggtg gtctacacgg ggtaggtgtg tcggtagtga atgccctgtc agaaaaagtg 60
133 ctgctbacca tttatcgtgg tggcaagatt cacacccaaa cttaccatca cgggtgtgcc 120
134 caagcaccgt tgtctgtrgt gggtagagact gacgcgtaccg gtactaccgt acgtttctgg 180
135 cctagtgcac agacttttac caatatcgaa ttccattacg acattctggc taaacgyctg 240
136 cgtgagctgt cattcctgaa ctctggcgtg tcgatcaagc tgacggatga gcgtgaagaa 300
137 gataagaaag accacttyat gtatgaaggt ggtattcaag cgtttgtkac ccacttgaac 360
138 cgtaayaaaa cgccgatcca tgaaaaagta ttccacttca accaagagcg tgaagatggc 420
139 atcagcgtgg aagtggcaat gcagtggaaac gatgggtttcc aagaaaacat ctactgcttt 480
140 accaacaaca tyccacagcg tgatggcggg acccacttag cygggtttccg tgggtgcrttg 540
141 acccgtactt tgaacaacta catggacaaa gaaggcttct cgaagaaagc scaagcrgca 600
142 acctcgggtg atgatgcgcg tgaaggctta acrgcrgtkg tkctcggtgaa agtrccrgat 660
143 cctaaattct cragccaaac caaagataag ctrgtttctt cggargtgaa atccgcgggt 720
144 gagtcagcca tgaatgagaa gctggcggat ttcctggcgg aaaaccaag cgaagcgaaa 780
145 aacgtttgtt cgaagattat tgatgcrgrc cghgctcgtg aagcvgcgcg taaagcacgt 840
146 gaaatgacyc gtcgtaaagg cgcgctagay ytmgctgggt tgccw 885
148 <210> SEQ ID NO: 6
149 <211> LENGTH: 822
150 <212> TYPE: DNA
151 <213> ORGANISM: Artificial Sequence
153 <220> FEATURE:
154 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus sequence of
vibrio mimicus -
155     rpoD
157 <400> SEQUENCE: 6
158 acacgtgaag gcgaaatcga tattgccaag cgcattgaag atggtattaa ccaagttcaa 60
159 agtgcgattg ctgagtatcc tggaaaccatc ccatacatc ttgaacagtt tgacaagggt 120
160 caggcagaag aactacgtct gactgayctg atttctgggt tcgttgatcc taacgacatg 180
161 gaaaccgaag cgccaactgc tactcacatc gggttcagarc tctctgaagc cgatctcgct 240
162 gatgaagatg acgaggtcgc ggaggatgaa gacgaggatg aagatgaaga cggcgacggg 300
163 gaaagyagcg acagcgaaga agaagtgggt attgaccctg agctcgctcg tgagaaattc 360
164 aatgaactgc gcggcaagtt ccaaaacctg caattagcgg ttaatgaatt tggctcgtgac 420
165 agtaaccaag catctgaagc ttcaagcctg gtactggata tyttccgcga attccgccta 480
166 acacaaaaac aatttgacca tttggttgaa actctgcgta cctcgatgga tcgtgttcgt 540
167 acccaagagc gyttaggtgat gaaagcvtg gttgaagtcg cgaaaatgcc aaagaaatca 600
168 tttattgcyc trtttacagg caatgaatcg aatgargaat ggctygataa agtrctcgct 660
169 tctgataarc cttatgtaca aaaagtacgt gagcaagaag acgatattcg ccgctcaatc 720

```

RAW SEQUENCE LISTING

DATE: 06/21/2005

PATENT APPLICATION: US/10/538,636

TIME: 13:51:01

Input Set : A:\pto.da.TXT

Output Set: N:\CRF4\06172005\J538636.raw

170 caaaaactkc agatgatcga acargagact tcaactgtctg ttgagcgtat caaagacatc 780

171 agccgtcgta tgtctatcgg tgaagcgaaa gctcgccgtg cg 822

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/538,636

DATE: 06/21/2005
TIME: 13:51:02

Input Set : A:\pto.da.TXT

Output Set: N:\CRF4\06172005\J538636.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 78

Seq#:4; Line(s) 103

Seq#:5; Line(s) 128

Seq#:6; Line(s) 154

VERIFICATION SUMMARY

DATE: 06/21/2005

PATENT APPLICATION: US/10/538,636

TIME: 13:51:02

Input Set : A:\pto.da.TXT

Output Set: N:\CRF4\06172005\J538636.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date